Amu cell

ICAR-CENTRAL INLAND FISHERIES RESEARCH INSTITUTE
(INDIAN COUNCIL OF AGRICULTURAL RESEARCH)
BARRACKPORE : KOLKATA-700 120 : WEST BENGAL
Phone No. 2592 1190/1191: FAX No.2592-0388/2545-1063, E. Mail: storeseccifri@gmail.com

Speed Post

No.1/1/2015-16/S/NICRA/ 5553 Dated : 17.11.2015

AKMU Cell, CIFRI,
BKP.

Sub : Quotation for purchase of Instruments/Equipments at this Institute – Reg.

Sir,

This Institute intends to purchase of following Instruments/Equipments as per enclosed specification at this Institute . Therefore, you are requested to submit your item-wise rate in sealed cover separately to this office on or before **09.12.2015** up to 13.00 hrs.

Sl. No.	Name of Instruments/Equipments	Quantity
1	Analytical Balance	01
2	Battery Operated Pan Balance	02
3	Water Analyzer	02
4	Tissue Homogenizer	01
5	Digital Colony Counter	01
6	Plate Centrifuge	01
7	Depth Sounder	01
8	Microscope with Accessories	01
9	Spectrophotometer	01
10	Deep Freezer	01
11	Water Velocity Meter	01
12	High Resolution Microscopic Camera with Computer & Image Analysis Software	01
13	Digital SLR Camera	02

Terms & Condition :

1. The quotation in sealed cover should have the following superscription on the left corner of the envelope "**Quotation for purchase of Instruments/Equipments for NICRA Project.**"

2. The last date of submission of quotation is up to **13.00 hrs. on 09.12.2015**.

3. The quotation may be submitted in the stores section of this Institute or it may be sent through post addressed to the **Assistant Administrative Officer (Stores), CIFRI, Barrackpore, Kolkata-700 120.**

4. The rate quoted should indicate clearly the cost of the item, Taxes & Duties, Transportation charges, any other charges.

5. This Institute will not be responsible for any loss or damage of articles in transit.

6. Payment will be made through e-transfer after satisfactorily installation of the equipment as per specifications and submit pre-receipted bill in triplicate along with challan etc. to this Institute for making payment. Payment will be made within one month from the date of submission of pre-receipted bill along with challan. Please furnish your Bank Details duly signed by the Bank Authority for making payment through e-transfer.

7. Liquidity Damages :

   An amount at the rate of 0.5% per week or part thereof subject to a maximum of 10% of the cost will be collected from you for delayed supply.

8. Validity of quotations, payment terms, delivery period etc. may be mentioned clear'y in The quotation.

9. The Competent Authority reserves the right to accept or reject of whole or part of the Quotations without prior intimation.

Yours faithfully,

Enclosures: Details specifications

17/11/15

Assistant Administrative Officer
(Stores)

Analytical Balance

Sl. No	Features	Specification
1.	Display	Digital display
2.	Capacity	Maximum Capacity 220g, Minimum 10 mg.
3.	Accuracy	0.1mg
4.	Power Source	Electrical operation

2. Battery operated top pan balance

Sl. No	Features	Specification
1.	Display	Digital display
2.	Capacity	Maximum Capacity 2000g
3.	Accuracy	± 0.1g
4.	Power Source	Battery & electrical operation

3. Water analyser (micro-controller based)

Sl. No	Features	Specification
1.	Parameters	pH, TDS, Conductivity, Salinity & Temperature.
2.	pH Range	0.00 to 14.00
3.	Resolution/Accuracy	0.01 pH /±0.01 pH
4.	pH Calibration	5 points.
8.	TDS Range	0.0 to 99.9 ppm; 100 to 999 ppm;1.00 to 10.00 ppt
6.	Resolution/Accuracy	0.1 ppm; 1 ppm;0.01 ppt / ±1 % Full scale
7.	TDS Calibration	3 Manual
8.	TDS Factor	0.40 to 1.00
9.	Conductivity Range	0.0 to 199.9 µS/cm; 200 to 1999 µS/cm; 2.00 to 20.00 mS/cm
10.	Resolution/Accuracy	0.1 µS/cm; 1 µS/cm; 0.01 mS / ±1 % Full scale
11.	Salinity Range	0.0 to 99.9 ppm ; 100 to 999 ppm ;1.00 to 10.00 ppt; 0.0 to 1.00 %
12.	Resolution/Accuracy	0.1 ppm / 1 ppm – 0.01 ppt / 0.01 % / ±1 % full scale
13.	Conductivity Calibration	3 Auto , 3 Manual
14.	Temp.Display	0-50.0°C /32.0-122.0°F
15.	Temp Resolution/Accuracy	0.1°C / °F ;±0.5 °C / 0.9 °F
16.	Power Requirement	4 x 1.5V "A 76" Alkaline Batteries

P. T. O.

6. Plate Centrifuge:

Sl. No	Features	Specification
1.	Capacity	Capacity: To hold 2 standard PCR micro plates, skirted and non-skirted micro titer micro plates and Bio Rad Hard-shell 96 plate. Option to load two standard micro plates through opening in the top of the unit and sealed plates to be loaded vertically to avoid spilling of samples
2.	Operating Temperature	Operates in ambient temperature range of 4° to 35°C with option to be used in cold room for temperature sensitive applications
3.	Speed	Speed of minimum of 2,500 rpm with starts and stops in seconds for quick spinning down of droplets
4.	Weight	Easy to move and require little space: weight not more than 2 kg
5.	Warranty	1 years of warranty
6.	Note	System must come with all parts required for full functioning including user manual.

4. Hand homogenizer

Sl. No	Features	Specification
1.	Characterictics	Sophisticated , portable and light weight (less than 0.3 kg) motor driven grinder for disrupting soft tissues like liver, muscle etc. in micro centrifuge tube (1.5-2 ml) for extracting DNA, RNA and protein
2.	Speed	Speed is adjustable up to 12000 rpm.
3.	Power	Electrically operated and come with rechargeable battery (3.7 V) of 6 hours power back-up with quick recharge facility
4.	Note	Equipment must contain required parts for full functioning including homogenizer, rechargeable battery, battery charger, tissue grinder pestle (auto cleavable and fit in micro centrifuge tube) or compatible Tarsons micro pestle and user manual etc
5.	Warranty	1 years of warranty

5. Digital Colony counter

Sl. No	Features	Specification
1.	Characteristics	Portable light weight with bright light for clear glare free vision of microbial colony
2.	Capacity	Capable of count up to 500 number of bacterial colonies in culture plates through digital LED display
3.	Efficiency	Marking of colonies with electrically operated pen type probe and magnifying glass (1.7X) with stand without repetition

7. Depth Sounder

Sl. No	Features	Specification
1.	Range	Water proof to a depth of 150 ft (50m)
2.	Range	Maximum depth 260 ft (79m) Accuracy: +/- 1%, range of 0.6 m to 79m.
3.	Frequency	Built in transducer model, 400 KHz with a 60 beam angle backlight.
4.	Display	Easy to read LCD display, minimum 7 digit LCD backlit.
5.	Refrigerant	R134a
6.	Battery life	Battery life approximately 500 use.
7.	Warranty	One year
8.	Power off	Automatically shut off option.

8. Microscope with accessories

Sl. No	Features	Specification
1.	Magnification	40 X – 1000 X.
2.	Trinocular tube	Inclination: 300. Eye: Camera port – 100:0, 0:100
3.	Interpupillary distance	47 mm – 75 mm.
4.	Eyepice	10X with field view of 20mm, built in dioptre adjustment on both the eyepieces.
5.	Nosepiece	Quadruple, reversed type.
6.	Stage	Refocusing type. The stage can be instantly dropped by pushing it down to exchange specimens or oil on the slide, and then it should return to the original focusing position.
7.	Objectives	Plan Achromat 4X. Plan Achromat 10X. Plan Achromat 40X. Plan Achromat 100X oil.
8.	Condenser	Adobe condenser with objective position guide marking.
9.	Illumination	High luminescent white LED illuminator with Lamp life of atleast 50,000 hrs.
10.	Digital camera	5 MP CCD fire-wire based scientific camera, dynamic range approx 60 dB, binning 2X2, 4X4, exposure 130/1000 sec with live imaging & capturing software.
11.	Warranty	One year.
12.	Note	Microscope & camera from same manufacturer will be preferred.

P. T. O.

9. Spectrophotometer

Sl. No	Features	Specification
1.	Source Lamp	Light Emitting Diode (LED)
2.	Wavelength Range	420 nm, 520 nm, 560 nm, 610 nm
3.	Wavelength Selection	Automatic
4.	Operating Mode	Transmittance (%), Absorbance and Concentration
5.	Sample Cell Compatibility	1 inch round or 16 mm round (with adapter)
6.	Data Logger	500 measured values (Result, Date, Time, Sample ID, User ID)
7.	Battery Requirements	4, AA size alkali cells
8.	Battery Life	6 months (typical) @ 5 readings a day / 5 days / week without backlight.
9.	Display	Graphical display 240 x 160 pixel (Backlit)
10.	User Interface Languages	English
11.	Interface	USB type
12.	Dimensions (H x W x D)	9.1 in x 3.8 in x 1.9 in (231 mm x 96 mm x 48 mm)
13.	Weight	1.32 lbs. (0.6 kg) with battery
14.	Includes	two 1-inchglass sample cells marked at 10, 20 and 25 mL, two 1 cm plastic sample cells, 1 x 16-mm COD/Test 'N Tube™ adapter, 4 AA alkaline batteries, printed multilingual instrument manual, instrument and procedure manuals on CD, USB Mini to USB Cable, European CE mark.

10. Deep freezer

Sl. No	Features	Specification
1.	Gross capacity	300 L
2.	Net capacity	292 L
3.	Temp. Range	-18^0 to -22^0 C
4.	Power supply	230 V/ 50Hz/ Single
5.	Refrigerant	R134a
6.	No. of lids	1
7.	Tank Material	Anodised stucco aluminium.
8.	Puf thickness	60 mm
9.	Dimension (W*D*H)	1055*745*835
10.	Type	Horizontal

Water Velocity meter

Sl. No	Features	Specification
1.	Range	0.3-19.9 FPS (0.1-6.1 MPS)
2.	Accuracy	0.1 FPS
3.	Averaging	True digital running average, updated once per Second.
4.	Display	LCD, Glare and UV protected.
5.	Data logger	30 sets, MIN, MAX, and AVG.
6.	Sensor Type	Protected Turbo-Prop propeller with magnetic .
7.	Weight	1.4 kg
8.	Expendable Length	5.5 to 15 ft (1.7 to 4.6 m)
9.	Material	PVC and anodized aluminium with stainless steel water bearing computer: ABS/Polycarbonate housing with polyester overlay.
10.	Power	Internal Lithium Battery, Approx 5 year life with typical use, non-replaceable.
11.	Operating Temperature	-20^0 to 70^0 C

12. High resolution Microscopic Camera with computer & image analysis software

Sl. No	Features	Specification
1.	**Mega Pixel**	5.0
2.	**Sensor**	CMOS ; size 0.5 inch
3.	**Interface**	USB 2.0
4.	**Resolution**	2592*1944 output
5.	**Frame Rate**	8-30 fr/sec
6.	**Lens Mount**	C/CS
7.	**White Balance**	Automatic
8.	**Image analysis software**	Image processing & micro measurement software.

13 Digital Field camera

Sl. No	Features	Specification
1.	**Mega Pixel**	24.1
2.	**Sensor**	CMOS
3.	**Sensor format**	23.5*15.6 mm
4.	**Resolution**	4496*3000 (M), 2992*2000 (S),
5.	**Auto focus**	TTL phase detectation ; Dust reduction image sensor cleaning.
6.	**Continuous Shot**	4fps; 24.71 million total pixels, single lens reflex digital camera.
7.	**Image Size**	6016*4000 (L)
8.	**Image Format**	PNG, NEF(raw), JPEG, EXIF 2.3, DCF2.0; DPOF;
9.	**Video Format**	MOV; MPEG-4,/H.264;
10.	**Display**	LCD, TFT LCD monitor with 170^0 viewing angle.